

Message Text

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TO ALL AMERICAN REPUBLIC DIPLOMATIC POSTS

AMEMBASSY CAIRO

AMEMBASSY JIDDA

AMEMBASSY TEL AVIV

AMEMBASSY TEHRAN

AMEMBASSY NEW DELHI

USMISSION NATO

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E.O. 11652: N/A

TAGS: ENRG, NATO

SUBJ CCMS: SOLAR HEATING AND COOLING MEETING IN

ODEILLO

THERE FOLLOWS A SUGGESTED FORMAT WHICH, WHEN COMPLETED BY COUNTRIES PARTICIPATING IN THE CCMS SOLAR HEATING AND COOLING OF BUILDINGS PILOT STUDY, COULD SERVE AS A REVIEW OF ALL PARTICIPATING COUNTRIES' SOLAR HEATING AND COOLING PROGRAMS. THIS REVIEW WOULD FACILITATE THE WORK OF THE ODEILLO MEETING AND COUNTRIES PLANNING TO ATTEND ARE REQUESTED TO PREPARE AS MUCH DESCRIPTION AS POSSIBLE OF THEIR NATIONAL SOLAR HEATING AND COOLING PROGRAMS IN ACCORDANCE

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WITH THIS FORMAT.

BEGIN TEXT OF FORMAT.

--- PROJECT REPORTING FORMAT
--- FOR CCMS SOLAR HEATING AND
--- COOLING OF BUILDINGS PILOT STUDY

I. FORMAT FOR REPORTING SYSTEM PERFORMANCE

A. DESCRIPTION OF SYSTEM

1. QUALITATIVE DESCRIPTION:

DESCRIPTION OF SYSTEM BY NARRATIVE, PHOTO-
GRAPHS, DRAWINGS, ETC.

2. QUANTITATIVE DESCRIPTION:

DESCRIPTION OF SYSTEM PERFORMANCE CHARACTER-
ISTICS INCLUDING SCHEMATIC DIAGRAMS. LATITUDE
AND ORIENTATION OF SYSTEM.

3. HEAT AND MASS BALANCES:

HEAT FLOW, ADDITIONS, AND LOSSES (IN CAL/HR)
AND MASS FLOW, ADDITIONS, AND LOSSES (IN
KG/HR). ABSOLUTE TEMPERATURES (IN DEGREES
CENTIGRADE) AND PRESSURES (IN KG/SQ CM) AT
CRITICAL LOCATIONS IN SYSTEM. TEMPERATURE
DROPS (IN DEGREES CENTIGRADE) AND PRESSURE
DROPS (IN KG/SQ CM) ACROSS CRITICAL COMPO-
NENTS. WORKING FLUID, STORAGE, ETC. MASS OR
VOLUME (IN KG OR CUBIC METERS).

B. DESCRIPTION OF ENVIRONMENT

1. INSOLATION:

HOURLY, DAILY, MONTHLY, ANNUAL SOLAR FLUX
(IN CAL/SQ METERS/HR).

2. AMBIENT TEMPERATURES:

MEAN HOURLY, DAILY, MONTHLY, ANNUAL TEMPERA-
TURES (IN DEGREES CENTIGRADE).

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3. WIND:

SPEED (IN KM/HR) AND DIRECTION (IN 0-360
DEGREES FROM NORTH).

II. FORMAT FOR REPORTING SUBSYSTEM PERFORMANCE

A. DESCRIPTION OF SOLAR COLLECTORS/RADIATORS

1. DESCRIPTION OF PHYSICAL CONFIGURATION:

DESCRIPTION OF SUBSYSTEM BY NARRATIVE, PHOTOGRAPHS, DRAWINGS, ETC. SPECIFY HEATING OR COOLING. LATITUDE AND ORIENTATION OF SOLAR COLLECTOR/RADIATOR.

2. DESCRIPTION OF PERFORMANCE CHARACTERISTICS:

HEAT COLLECTION/RADIATION PERFORMANCE

(IN CAL/SQ METERS/HR). WORKING FLUID MASS OR

VOLUME (IN KG OR CUBIC METERS). WORKING

FLUID FLOW RATES (IN KG/HR). ABSOLUTE TEMPERATURE AND TEMPERATURE CHANGES (IN DEGREES CENTIGRADE). ABSOLUTE PRESSURE AND PRESSURE DROPS (IN KG/SQ CM).

3. DESCRIPTION OF ENVIRONMENT:

DESCRIPTION OF INSOLATION, AMBIENT TEMPERATURES, AND WINDS IN FORMAT OF PARAGRAPH 1.B.

B. DESCRIPTION OF HEAT EXCHANGERS

1. DESCRIPTION OF PHYSICAL CONFIGURATION:

DESCRIPTION OF SUBSYSTEM BY NARRATIVE, PHOTOGRAPHS, DRAWINGS, ETC. SPECIFY CONSTRUCTION MATERIALS AND WORKING FLUIDS.

2. DESCRIPTION OF PERFORMANCE CHARACTERISTICS:

INLET AND OUTLET TEMPERATURES ON BOTH SIDES OF EXCHANGER (IN DEGREES CENTIGRADE). INLET AND OUTLET PRESSURES ON BOTH SIDES OF EXCHANGER (IN KG/SQ CM). VOLUME OF HEAT EXCHANGER
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(IN CUBIC METERS). FLUID FLOW RATES ON BOTH SIDES OF EXCHANGER (IN KG/HR). HEAT FLOWS, ADDITION, AND LOSSES (IN CAL/SQ METERS/HR). PUMPING POWER (IN WATTS).

C. DESCRIPTION OF HEAT STORAGE SYSTEMS

1. DESCRIPTION OF PHYSICAL CONFIGURATION:

DESCRIPTION OF SUBSYSTEM BY NARRATIVE, PHOTOGRAPHS, DRAWINGS, ETC. SPECIFY CONSTRUCTION MATERIALS AND WORKING FLUIDS.

2. DESCRIPTION OF PERFORMANCE:

STORAGE CAPACITY (IN CAL). INLET AND OUTLET TEMPERATURES (IN DEGREES CENTIGRADE) AND

PRESSURES (IN KG/SQ CM). MASS (IN KG) AND
VOLUME (CUBIC METERS) OF STORAGE SUBSYSTEM.
FLOW RATES (IN KG/HR) PUMPING POWER (IN WATTS).
IF PHASE CHANGE MATERIALS ARE USED, SPECIFY
COMPOUND AND TEMPERATURE CHARACTERISTICS.

D. DESCRIPTION OF REFRIGERATION SYSTEMS

1. DESCRIPTION OF PHYSICAL CONFIGURATION

SAME AS PARAGRAPH II.B.1.

2. DESCRIPTION OF PERFORMANCE CHARACTERISTICS

SAME AS PARAGRAPH II.B.2.

III. FORMAT FOR REPORTING SYSTEM AND SUBSYSTEM ECONOMIC
ANALYSES

THE FORMAT FOR REPORTING ECONOMIC ANALYSES OF
SYSTEM AND SUBSYSTEM WILL DEPEND ON THE SUCCESS-
FUL DEVELOPMENT OF REPORTING METHODOLOGY. THIS
METHODOLOGY WILL BE DEVELOPED DURING PHASE 1 OF THE
PROJECT FOLLOWING CONSULTATION WITH THE PARTICIPA-
TING COUNTRIES. SUCH METHODOLOGY WILL INCLUDE THE
FOLLOWING:

A. LABOR COSTS, IN MAN-HOURS AND IN LOCAL CURRENCY.
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B. MATERIALS COSTS IN WEIGHT OR VOLUME AS APPRO-
PRIATE AND LOCAL CURRENCY.

C. OPERATIONAL COSTS, INCLUDING SUPPLEMENTAL ENERGY
COSTS, IN LOCAL CURRENCY.

D. MAINTENANCE COSTS, IN LOCAL CURRENCY.

E. LOCAL ECONOMIC FACTORS SUCH AS ESCALATION, IN-
FLATION, AND INTEREST RATES AND AMORITIZATION
PERIODS.

END TEXT OF FORMAT. KISSINGER

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